



Programs of Study for 2014-2015 Academic Year

For more information on the specific courses, please visit our career cluster webpage at

http://tn.gov/education/cte/Career_Clusters/Career_Clusters.shtml

STEM (Science, Technology, Engineering & Mathematics)

Program of Study	Level 1	Level 2	Level 3	Level 4
Engineering by Design	Foundations of Technology (EBD)	Technological Design (EBD)	Advanced Design Applications (EBD) -and/or- Advanced Technological Applications (EBD)	Engineering Design (EBD)
Engineering	Principles of Engineering and Technology	Engineering Design I	Engineering Design II	Engineering Practicum -and/or- AP Physics
Technology	Principles of Engineering and Technology	Digital Electronics	Robotics & Automated Systems	Engineering Practicum -and/or- AP Physics
STEM Education	STEM I: Foundation	STEM II: Applications	STEM III: STEM in Context	STEM IV: STEM Practicum
Project Lead the Way	Introduction to Engineering (PLTW)	Principles of Engineering (PLTW)	Choice of the following: Aerospace Engineering (PLTW) Civil Engineering & Architecture (PLTW) Biotechnical Engineering (PLTW) Digital Electronics (PLTW) Computer Integrated Manufacturing (PLTW)	Engineering Design and Development (PLTW)

Available courses for elective credit in this cluster: *Introduction to Geographic Information Systems (GIS)*

Note: Courses marked EBD are part of the *Engineering by Design* curriculum package and may require additional costs and training to implement. Courses marked PLTW are part of the *Project Lead the Way* curriculum package and may require additional costs and training to implement.